



## REQUEST FOR PROPOSALS No. 24-016

### Morden Colliery Bridges Engineering Services

#### Addendum 3

Issued: March 19, 2024

**Closing Date & Time: on or before 3:00 PM Pacific Time on March 27th, 2024**

This addendum shall be read in conjunction with and considered as an integral part of the Request for Tender. Revisions supersede the information contained in the original Tender or previously issued Addendum. No consideration will be allowed for any extras due to any Vendor not being familiar with the contents of this Addendum. All other terms and conditions remain the same.

#### **Request for Proposals Addendum:**

##### **Item 1**

**Add:** Existing survey information has been added into Appendix 6 at the end of this Addendum. Boundary Survey for the entire trail has already been completed. Any additional survey information needed is to be included in the scope of the RFP.

#### **Questions & Answers:**

**Question 1.** What is the payment structure for the Project? Can we assume Fixed Price for Phases 1-2 and T&M for Phase 3-4 with estimated budgets?

**Answer 1.** All phases are fixed price. Phase 4 fees and scope will be reviewed after Phase 3 to ensure sufficient scope and funds have been allocated.

**Question 2.** How is the price portion of the proposal being evaluated?

**Answer 2.** Section 7 of the RFP outlines the evaluation. Fees are evaluated with a maximum of 25 points out of 100 total evaluation points.

**Question 3.** Can you provide the general extent of the 2022 topographic survey (that will be provided upon award) to help us scope what additional survey is required?

**Answer 3.** Existing survey information has been added into Appendix 6 at the end of this Addendum. Boundary Survey for the entire trail has already been completed. Any additional survey information needed is to be included in the scope of the RFP.

**Question 4.** Feasibility study shows 2.5m truss width and only 2.05m clear width which is narrow for multiuse bridge (pedestrian, cyclist, equestrian). As per BC supplement, minimum width for unidirectional pedestrian and cycle is 2.5m and for bi-directional it is 3.5m. What clear bridge width (face to face of railing) is RDN looking for?

**Answer 4.** For fair and equal estimating purposes, use 2.5m width. Further discussions about increasing the width can be had during the project.

End of Addendum 3



**BENNETT LAND SURVEYING (COASTAL) LTD.**  
B.C. and Canada Land Surveyors

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*SURVEY REPORT FOR NANAIMO RIVER CROSS SECTIONS*

To : Amy Gore  
Superintendent of Parks Planning,  
Research and Development  
Regional District of Nanaimo.  
Via [agore@rdn.bc.ca](mailto:agore@rdn.bc.ca)

Our File No: 110554.00 Your File No:
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From : Danu Vandermark BCLS, CLS, ALS.  
Via [danu@bennettsurveys.com](mailto:danu@bennettsurveys.com)

Date : October 7, 2022

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**Re: Nanaimo River Cross sections for Morden Colliery Trail**

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Amy,

The follow report provides a brief summary of the field and office work completed for the above noted project.

The scope of work included five river cross sections as shown in appendix A.

The fieldwork was completed September 20<sup>th</sup> and 21<sup>st</sup>, 2022. The weather conditions were sunny with a high of 20°C and clear skies. The river levels were low. The field crews wore chest waders and life jackets as they worked through the river cross sections.

The survey equipment used was a Lecia TS06 Total Station (TS) and a Leica GS14 GNSS receiver connected to Smart Net base station PNAN (RTCM 4026).

GNSS control points were set at each cross section, the TS was set up on the GNSS control, and the TS was used to measure each cross section. Photos were taken at each cross sections and noted in the field notes. See Appendix B for the field note sketch for photo locations at each river cross section.

The field data was imported into AutoCad Civil 3d file T110554 (RIVER SECTIONS).dwg. Linework for the trail boundaries from the legal survey were imported into the dwg.

The Horizontal datum is UTM Zone 10N, NAD 83 Grid Coordinates and the Vertical Datum is CGVD28.

The dwg file, images and field notes have been uploaded to a google drive folder that will be valid for 30 days (link below).

<https://drive.google.com/drive/folders/1sDa0l4KOXRMPiVKVpmFFAxoKVm4gxhZ0?usp=sharing>

Sincerely,

*Danu Vandermark*

Danu Vandermark BCLS, CLS, ALS (ret.)  
Branch Manager

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B.C. and Canada Land Surveyors

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## ***Appendix A***

Approximate River Cross section Locations



# Nanaimo River Cross Sections

Project 110554.00



Cross section 05

Cross section 04

Cross section 01

Cross section 02

Cross section 03





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## ***Appendix B***

Cross Section Photo Locations



# CROSS Section # 1

Picture # 1 West bank looking East.

2022.09.20 10:15 am

Picture # 2 Center of River looking Downstream

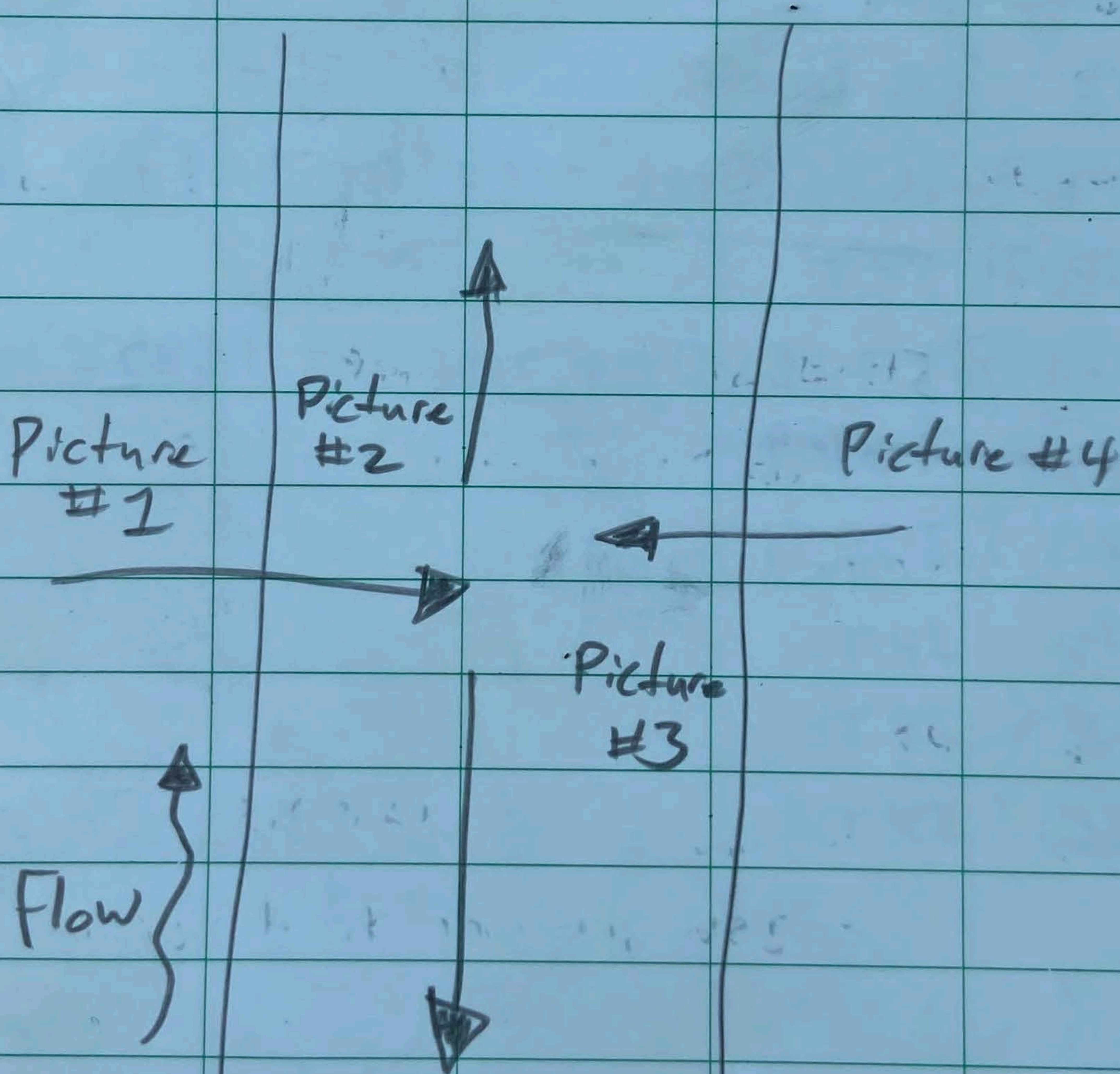
2022.09.20 1:06 pm

Picture # 3 Center of River looking upstream

2022.09.20 1:06 pm

Picture # 4 East bank Looking west.

2022.09.21 9:02 am





CROSS Section  
#2

50039	TOP 7		1.655
50040	TOE 7		3.700m
50041-42	SPT		"
50043	SPT	Cross section ENDS.	3.250
BRIDGE TOPO			
10113			
<del>R@ SPK 40116</del>	BS @ SPK 8602HI:	1.649m	HT: <del>1.570m</del>
50044	Rail 1	outside edge of Southern rail.	0.400m
50045-48	Rail 1	" "	0.100m
50049-	CL Bridge		1.655m

Picture # 1 west bank looking East.  
2022.09.21 9:04 am

Picture #2 Center of River looking upstream.  
2022.09.21 9:06 am

Picture #3 Center of River looking Downstream  
2022.09.21 9:06 am

Picture #4 East bank looking west  
2022.09.21 9:07 am



#10554

CROSS SECTION #3

T:SC  
P:PG

2022.09.21

TS06+100

GNSS

Point ID	CODE		Desc.		HT
1000	SPK 1000				2.000m
1001	SPK 1001				2.000m
T@ SPK 1000 B S@ SPK 1001 HI: 1.575					HT: 1.645
1002	TOP				1.655
1003	TUE				1.655
1004	WTIR				1.655
1005	THG				2.70
1006	WTIR				1.655
1007	TUE	SPT		1.655	<del>1.655</del>
<del>1008</del>	<del>TOP</del>				

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DUKSBK WATERPROOF

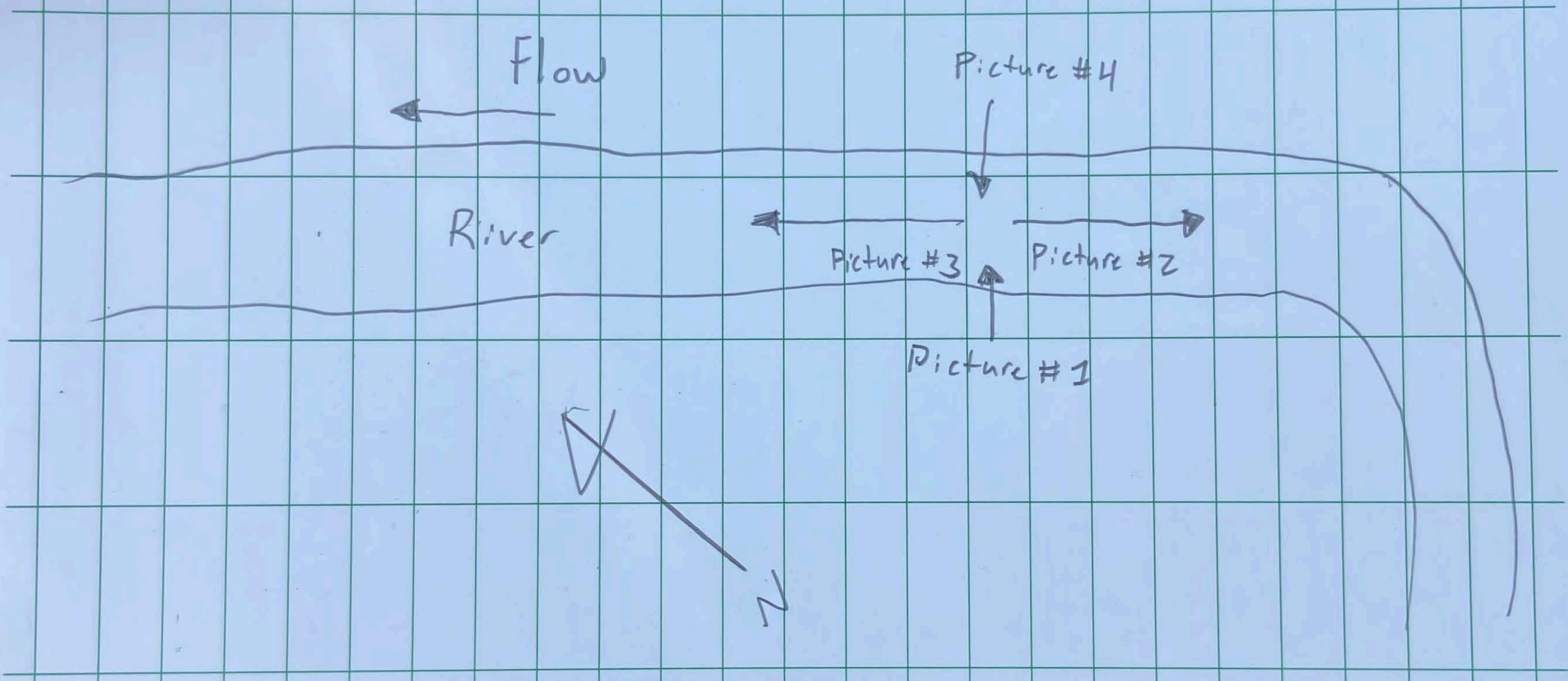
Picture #1 west bank looking East.  
2022.09.21 12:07

Picture #2 Center of River looking upstream  
2022.09.21 12:09

Picture #3 Center of River looking downstream  
2022.09.21 12:09

Picture #4 East bank looking west.  
2022.09.21 12:16







110554

## CROSS Section #4

K: PG  
P: SC

2022.09.21

TSOG+FG

Point ID	CODE	Desc	HT
2001	SPK 2001	GNSS	2.000m
2000	SPK 2000	"	2.000m
K@ SPK 2000 BS@ SPK 2000 HI: 1.675			HT: 1.532m
2002	TOP		1.655m
2003	TOE		"
2004-05	SPT		"
2006	WTR		"
2007	THG		"
2008	WTR/TOE		"
2009	TOP		"
Picture #1	West bank looking east 2022.09.21 1:51pm		
Picture #2	Center of River looking upstream 2022.09.21 1:53pm		
Picture #3	Center of River looking Downstream 2022.09.21 1:53pm		
Picture #4	East bank looking west 2022.09.21 2:01pm		

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Picture #1

Picture #3

Picture #4

Picture #2

Flow





110554

CROSS Section # 5

K: 5C  
P: PG

2022.09.21

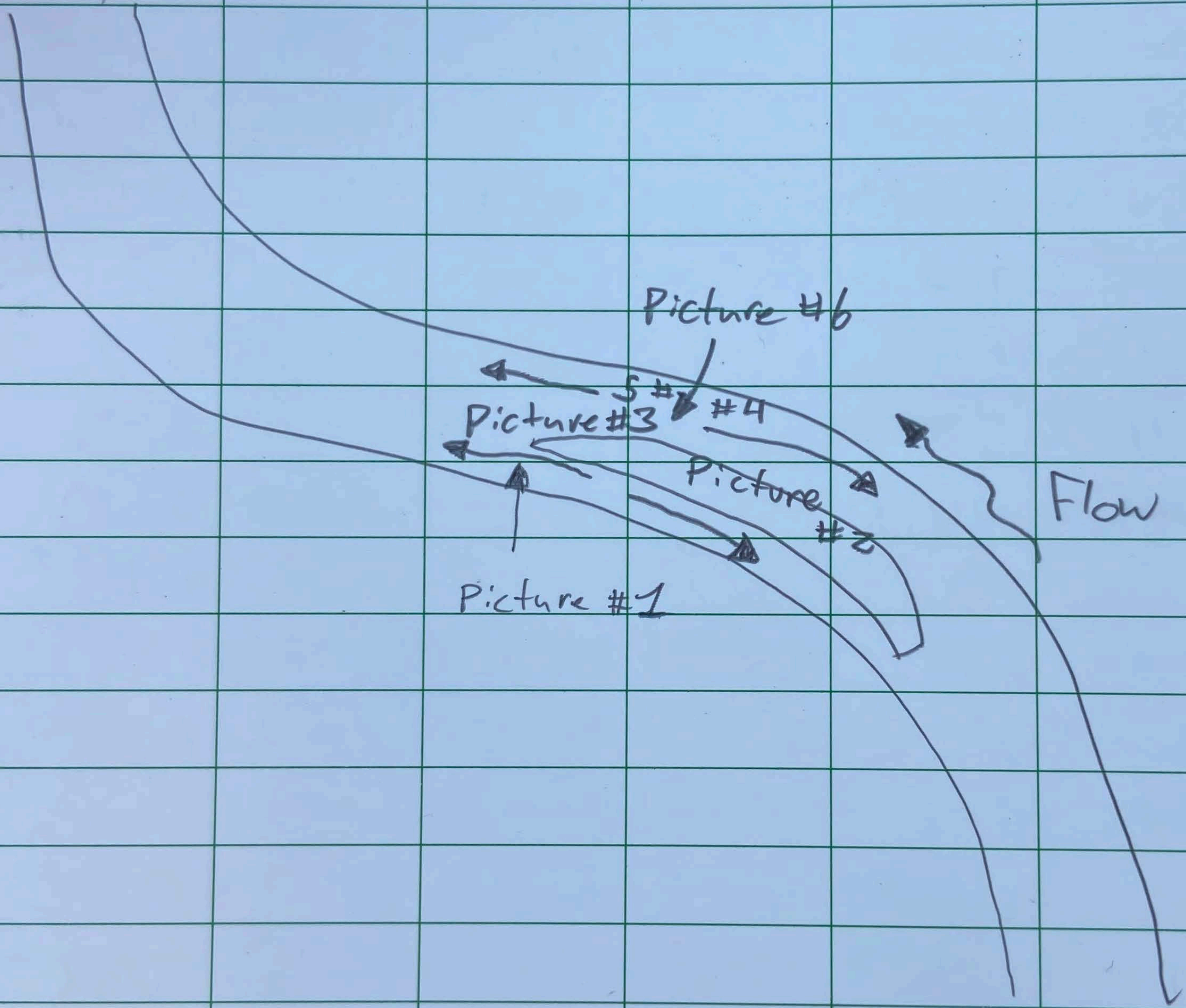
TSOG/FL

Point ID	CODE	Desc	HT
3000	SPK 3000	GNSS	2.000m
3001	SPK 3001		2.000m
K@SPK 3000 BS@SPK 3001		HI: 1.624m	HT: 1.554m
3002	TOP		1.655
3003	TUE		3.70
3004	WTR		3.70
3005	THG		3.50
3006	WTR		1.655
3007	SPT		1.655
3008	WTR		1.655
3009	THG		2.70
3010	SPT		1.655
3011	WTR		1.655
3012	TUE		1.635
TOP ↑ 15.0 M			
Picture # 1	West Bank looking east, 2022.09.21		2:38 pm
Picture # 2	Center of side channel looking upstream		3:28 pm
Picture # 3	Center of side channel looking Downstream		3:28 pm
Picture # 4	Center of River looking upstream		3:29 pm
Picture # 5	Center of River looking Downstream		3:29 pm
Picture # 6	East bank looking west		3:31 pm

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DUKSBK WATERPROOF

LEVEL







REMAINDER  
SECTION 12  
RANGE 8

**XS-01**

SECTION  
RANGE 8

**XS-02**

PLAN 31 RW

